

Adm-6.2

OEL-996/64

12007 1964

MEMORANDUM FOR: Director of Logistics

SUBJECT : Extension of Base Contract 646,  
Task Order 46 to Include Phase III

REFERENCE : A. Phase I - OEL-315/63 dated 19 April 1963  
B. Phase II - OEL-191/64 dated 28 February 1964

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1. The Assistant Director for ELINT engaged [REDACTED] as a contractor for the development of a field data collection system. Phase I of this contract, negotiated in FY-63, provided for a feasibility study and the breadboarding of the analog digital converter subsystem and was completed to the satisfaction of OEL engineering personnel. Phase II of the contract provided for the development of the buffer memory subsystem. This phase of the contract was consummated during September 1964 to the satisfaction of OEL engineering personnel. The present effort, Phase III, relates specifically to the pulse data converter/memory, PDC/M-121 (VA-12D), an integral part of the collection system.

2. The original requirement for a field data collection system was levied upon the Assistant Director for ELINT by the SR Division. Representatives of this division have monitored the progress of the contract and have coordinated and concurred in the initiation of each of the three phases. Phase III is needed in connection with operational requirements in early 1965, thereby justifying negotiation of Phase III of the contract.

3. The technical proposal does not clearly define milestones to be accomplished by the contractor in connection with contract execution. Representations have been made to [REDACTED] to establish milestones and concurrently to key anticipated expenditure rates to these milestones to insure that execution progresses in accordance with scheduled activity. This information is to be made available to the Office of Logistics and representatives of OEL on or about 16 October 1964. Since Phase II of the contract expires on 15 Oct.

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## TECHNICAL ANNEX

The purpose of this program is to develop a portable clandestine Radar Pulse Data Collection System package. The system is geared to high data rate analog to digital recording capable of recording 20,000-25 parallel bit words per second. A word defines the parameters of an individual radar pulse. The parameters are the pulse width, the preceding pulse interval, the pulse amplitude, and the instantaneous radio carrier frequency coincident with the radar pulse.

The Analog to Digital Converter, Phase I, with a serial bit readout has been field tested yielding excellent results. The design and development of a complimentary Buffer Memory, Phase II, has progressed to a point where feasibility has been proven.

The immediate requested effort is to fabricate the prototype Pulse Data Converter/Memory, PDC/M-121 (VA-12D). The prototype Radar Data Collection System package will include a proposed digital magnetic tape recorder. The proposed tape recorder development program is being prepared for an initiation date pending in-house design reviews.

OEL-996/64

Page Two

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it is essential that [REDACTED] be authorized to proceed with the initiation of Phase III; otherwise, [REDACTED] may reassign personnel who have been participating in this contract. Accordingly, this memorandum requests that [REDACTED] be given verbal authorization to proceed with the contract prior to the date a definitive contract is negotiated. The milestone and expenditure data due 16 October, will be evaluated immediately upon receipt to provide an appropriate administrative centerpiece for negotiation. 25X1A5a1

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4. It is requested that Phase III under Base Contract 646, Task Order 46, be negotiated with [REDACTED], as outlined in Technical Proposal SI48-CP64 attached. Funds in the amount of [REDACTED] are encumbered for this purpose. Requisition ELR-215-65 applies. 25X1A5a1

5. The association of the Agency with this contract is classified CONFIDENTIAL, but all equipment and reports are UNCLASSIFIED. The cognizant project engineer is [REDACTED], extension 4518. 25X1A9a

/s/  
George C. Miller  
GEORGE C. MILLER  
Assistant Director for ELINT  
Directorate of  
Science and Technology

APPROVED:

ALBERT D. WHEELON

Date

Attachments:

- A. Technical Proposal
- B. Technical Annex
- C. Requisition ELR-215-65

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OEL-996/64  
Page Three

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